

# Component

노인과 바다

컴포넌트란?



#A #Apple

## Etiam Nulla Lectus Amet Nunc Molestie At Vulputate.

홍길동 2023년 5월 10일

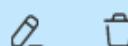
Fringilla turpis mattis sit aenean facilisis amet. Quis at vulputate pulvinar urna hendrerit. Cras ipsum lectus viverra diam lorem eu. Justo.

eden + 123

댓글 추가

PWA for website and native apps. Note: Windows and Mac will need unique share icons.

Bbo + 123



댓글 추가

Mobile formatting bar expands and collapses when tapping the format icon.

dorri + 123

댓글 추가

PWA for website and native apps. Note: Windows and Mac will need unique share icons.

dorri

Nam nec accumsan arcu justo magna. Faucibus ut mollis id pellentesque imperdiet aenean amet. Aliquet molestie nisl semper nunc.

Ddo + 123

Interface for when recording a new audio note

Mandu + 123

댓글 추가

Folders, tags, and notes lists are sorted by recent.

Bbo + 123



댓글 추가

Nam nec accumsan arcu justo magna. Faucibus ut mollis id pellentesque imperdiet aenean amet. Aliquet molestie nisl semper nunc.

moly + 123

댓글 추가

Nam nec accumsan arcu justo magna. Faucibus ut mollis id pellentesque imperdiet aenean amet. Aliquet molestie nisl semper nunc.

holy + 123

댓글 추가

Folders, tags, and notes lists are sorted by recent.

eden

Header

PostInfo

PostitWrapper

PostitItem

The diagram illustrates a mobile application's user interface structure. It features a header with a back arrow, a logo, and a user icon. Below the header is a post info section with a title and date. The main content area contains a grid of post items, each with a yellow rounded rectangle around its title and content. The bottom of the screen shows a navigation bar with three icons.

**Header:** The top-most section containing the back arrow, logo, and user icon.

**PostInfo:** The section immediately below the header, containing the post title and author information.

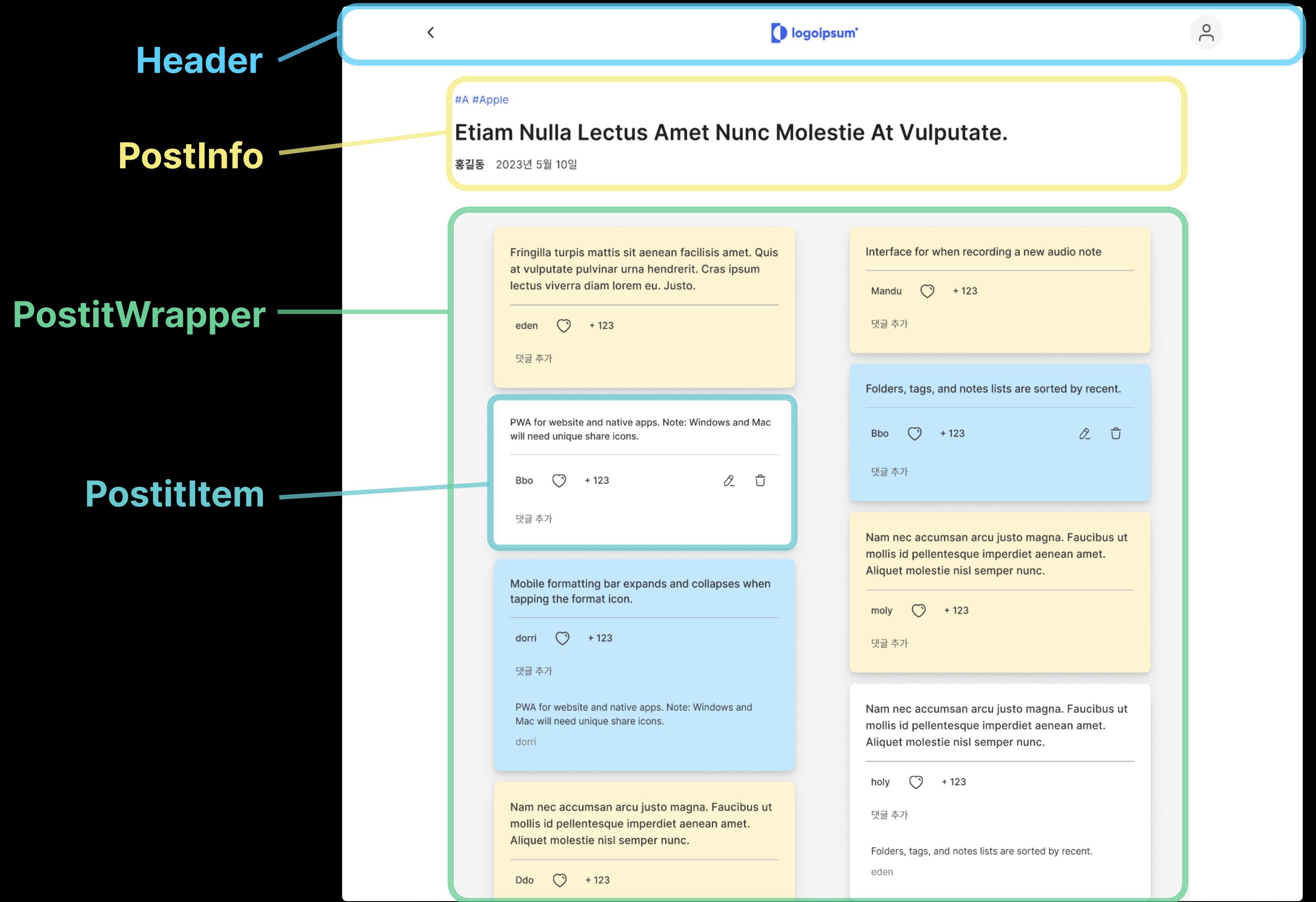
**PostitWrapper:** The large green-bordered container holding multiple post items.

**PostitItem:** The individual post items within the PostitWrapper, each with a yellow rounded rectangle around its title and content.

**Bottom Bar:** The navigation bar at the bottom of the screen with three icons: a magnifying glass, a plus sign, and a gear.

**Post Content Examples:**

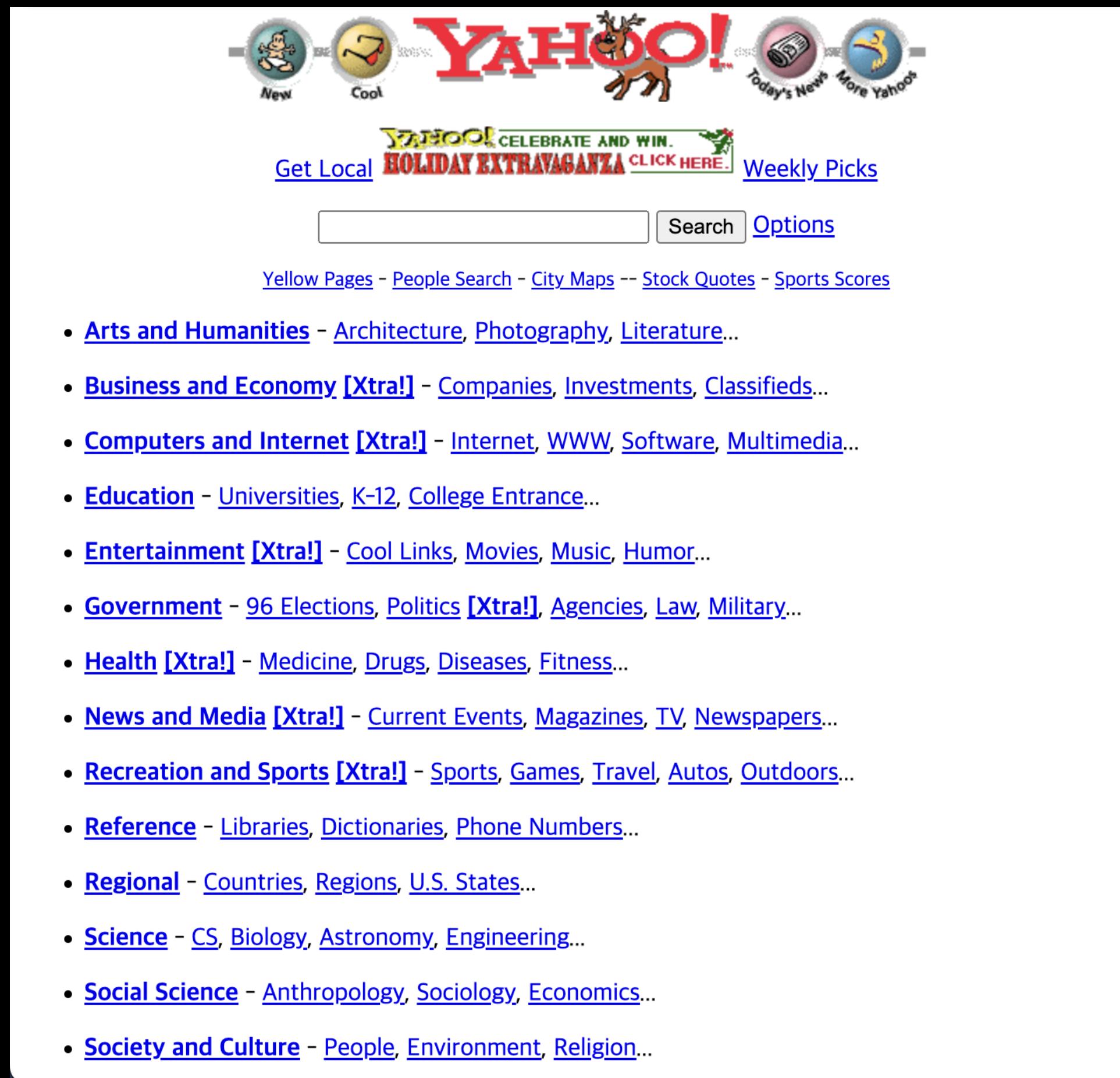
- #A #Apple  
Etiam Nulla Lectus Amet Nunc Molestie At Vulputate.  
홍길동 2023년 5월 10일
- Fringilla turpis mattis sit aenean facilisis amet. Quis at vulputate pulvinar urna hendrerit. Cras ipsum lectus viverra diam lorem eu. Justo.  
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댓글 추가
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dorri ❤ + 123  
댓글 추가
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댓글 추가
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holy ❤ + 123  
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eden



프로그래밍에 있어 재사용이 가능한 각각의 독립된 모듈

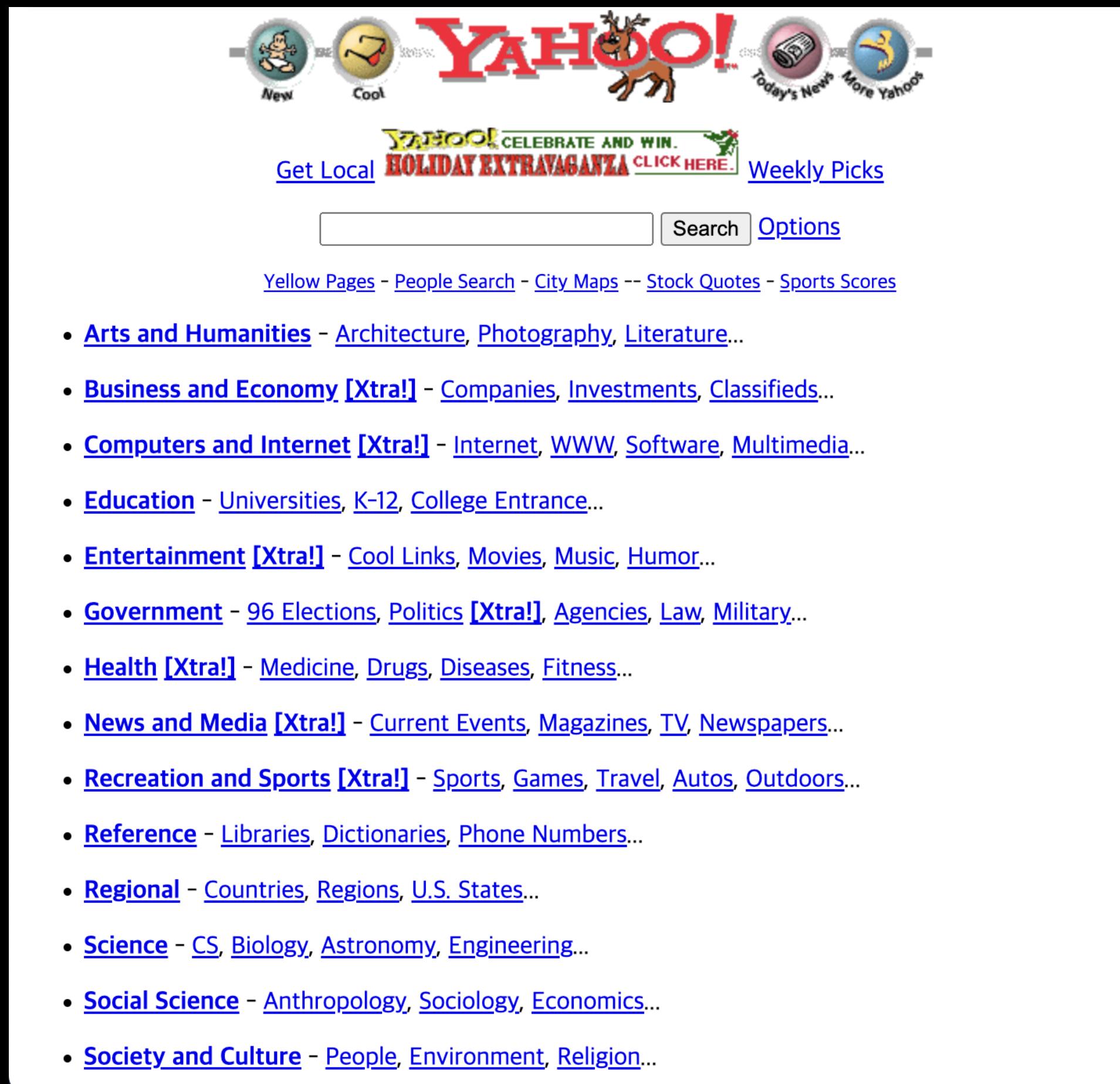
# 컴포넌트의 탄생

# 과거의 웹사이트



```
<form action="https://web.archive.org/web/19961220154510/http://search.in/search">
  <center>...</center>
  <p> </p>
  <ul>
    <li>...</li>
    <li>
      ::marker
      <a href="/web/19961220154510/http://www.yahoo.com/Business_and_investments/">Companies</a>
      " _ "
      <a href="/web/19961220154510/http://www.yahoo.com/Business_and_investments/">Investments</a>
      " , "
      <a href="/web/19961220154510/http://www.yahoo.com/Business_and_classifieds/">Classifieds</a>
      " . . . "
    <p> </p>
  </li>
  <li>...</li>
  ... <li>...</li> == $0
  <li>...</li>
  <li>...</li>
```

# 과거의 웹사이트



```
<form action="https://web.archive.org/web/19961220154510/http://search/in/search">
  <center>...</center>
  <p> </p>
  <ul>
    <li>...</li>
    <li>
      ::marker
      <a href="/web/19961220154510/http://www.yahoo.com/Business_and_investments/">Companies</a>
      " _ "
      <a href="/web/19961220154510/http://www.yahoo.com/Business_and_investments/">Investments</a>
      " "
      <a href="/web/19961220154510/http://www.yahoo.com/Business_and_investments/">Classifieds</a>
      " . . . "
      <p> </p>
    </li>
    <li>...</li>
    <li>...</li> == $0
    <li>...</li>
    <li>...</li>
```

정적

하나의 덩어리

단순함

전체 HTML 요청

# 현재 웹사이트

**yahoo!**

Mail News Finance Sports Entertainment Life Shopping Yahoo Plus More... ▶



**Elizabeth Holmes reports to prison in Texas**

Disgraced Theranos CEO Elizabeth Holmes is in custody at a Texas prison where she could spend the next 11 years.

[Her prison number: 24965-111 »](#)



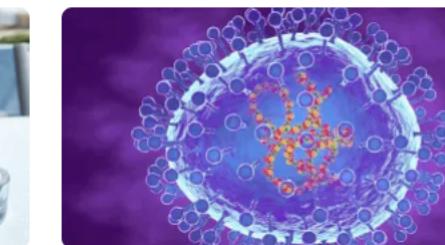
Dodgers upset Kershaw with Pride Night decision



Manson cult killer has earned parole, appeals court rules



Restaurant guests are fed up with lousy service

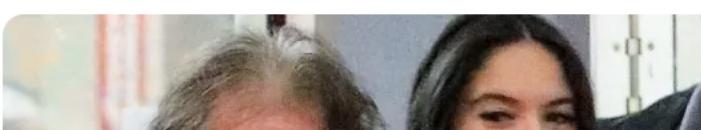


Experts tracking surge of human metapneumovirus



Costco shoppers skip beef aisle due to recession fears

**Stories for you**



Celebrity People

**Al Pacino, 82, and Girlfriend Noor Alfallah Are Expecting a Baby**

# 현재 웹사이트

The screenshot shows the Yahoo homepage with a large image of Elizabeth Holmes on the left. The main headline reads "Elizabeth Holmes reports to prison in Texas". Below the main content are five smaller news cards: "Dodgers upset Kershaw with Pride Night decision", "Manson cult killer has earned parole, appeals court rules", "Restaurant guests are fed up with lousy service", "Experts tracking surge of human metapneumovirus", and "Costco shoppers skip beef aisle due to recession fears". At the bottom, there's a section titled "Stories for you" featuring a photo of Al Pacino and Noor Alfallah.

yahoo!

Mail News Finance Sports Entertainment Life Shopping Yahoo Plus More...

Elizabeth Holmes reports to prison in Texas

Disgraced Theranos CEO Elizabeth Holmes is in custody at a Texas prison where she could spend the next 11 years.  
Her prison number: 24965-111 »

Dodgers upset Kershaw with Pride Night decision

Manson cult killer has earned parole, appeals court rules

Restaurant guests are fed up with lousy service

Experts tracking surge of human metapneumovirus

Costco shoppers skip beef aisle due to recession fears

Stories for you

Celebrity People

Al Pacino, 82, and Girlfriend Noor Alfallah Are Expecting a Baby

필요한 데이터만 요청

동적 페이지

사용자 Interaction 증가

→ 더 복잡한 웹사이트

# 웹사이트 쪽개기

The screenshot shows the Yahoo homepage with a large, semi-transparent green rectangular overlay highlighting a specific element. This element is a news card featuring a large image of Elizabeth Holmes and the headline "Elizabeth Holmes reports to prison in Texas". Below the main card, there are five smaller news thumbnails with titles: "Dodgers upset Kershaw with Pride Night decision", "Manson cult killer has earned parole, appeals court rules", "Restaurant guests are fed up with lousy service", "Experts tracking surge of human metapneumovirus", and "Costco shoppers skip beef aisle due to recession fears". The rest of the page includes the Yahoo logo, a search bar, and a navigation menu.

전체 페이지의 문제 → 작은 **element** 그룹에 대한 문제

컴포넌트가 왜 필요할까?

Header

PostInfo

PostitWrapper

PostitItem

#A #Apple

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홍길동 2023년 5월 10일

Fringilla turpis mattis sit aenean facilisis amet. Quis at vulputate pulvinar urna hendrerit. Cras ipsum lectus viverra diam lorem eu. Justo.

eden + 123

댓글 추가

PWA for website and native apps. Note: Windows and Mac will need unique share icons.

Bbo + 123

댓글 추가

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moly + 123

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댓글 추가

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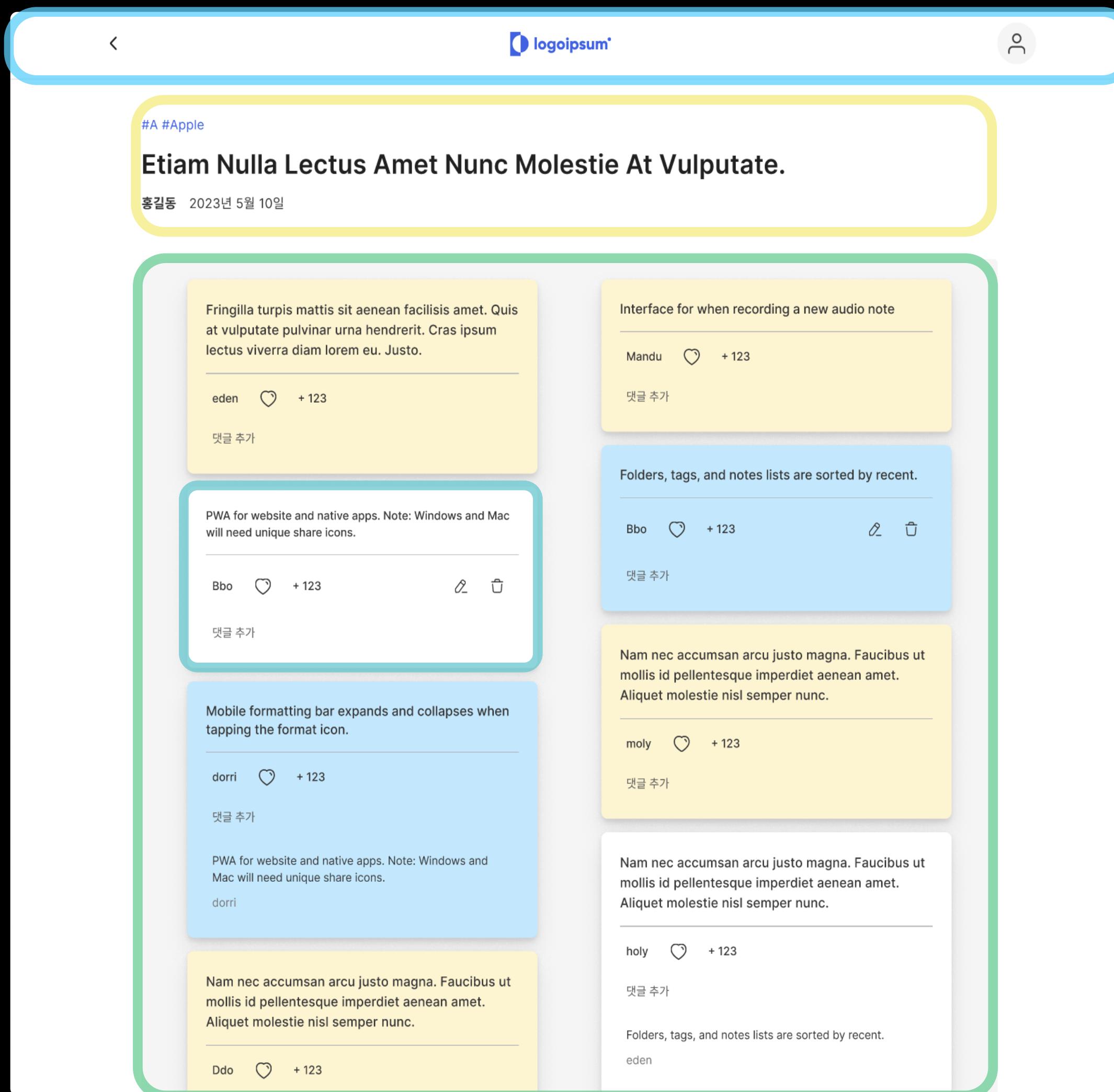
eden

Interface for when recording a new audio note

Mandu + 123

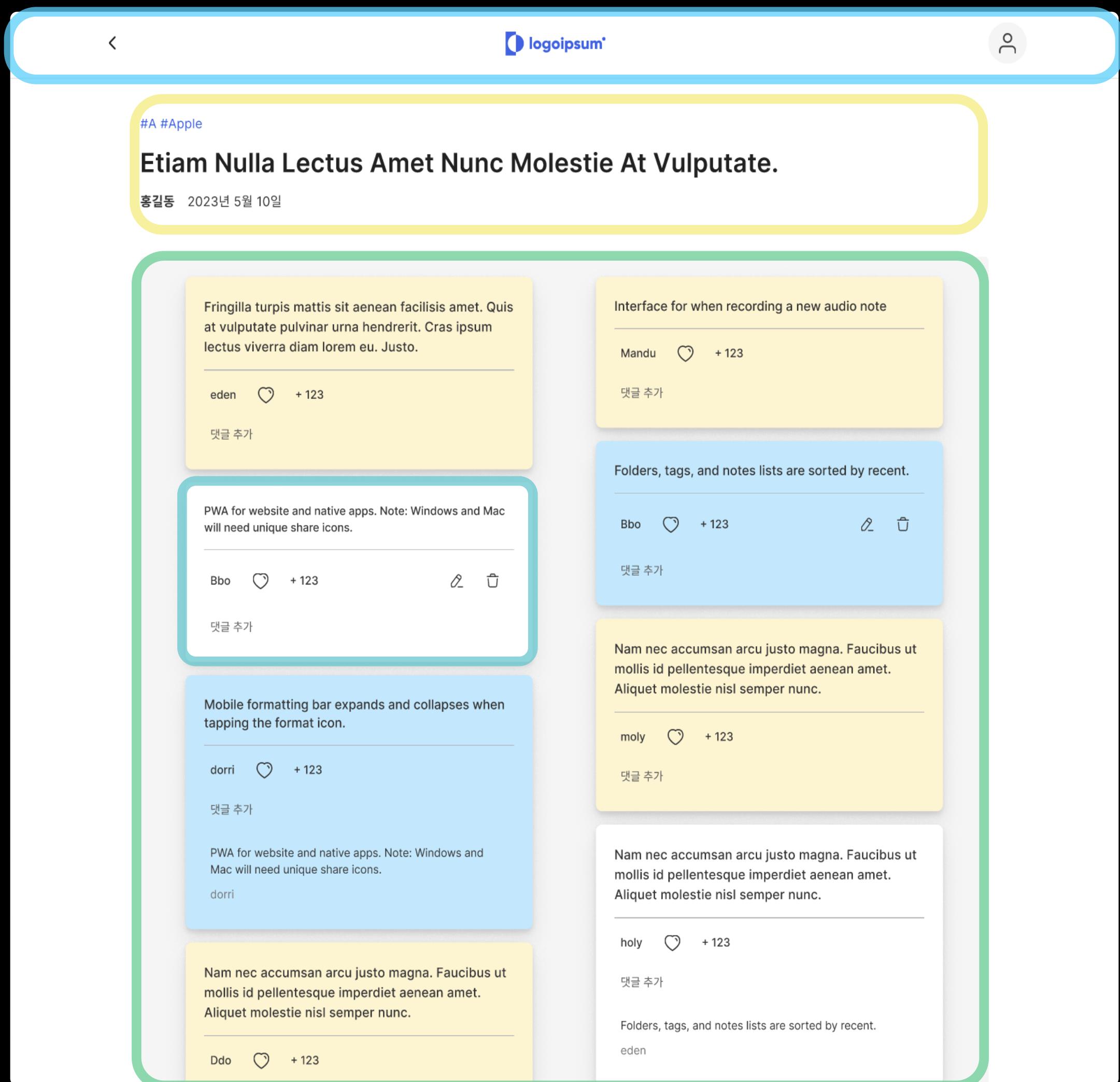
댓글 추가

# 컴포넌트 사용



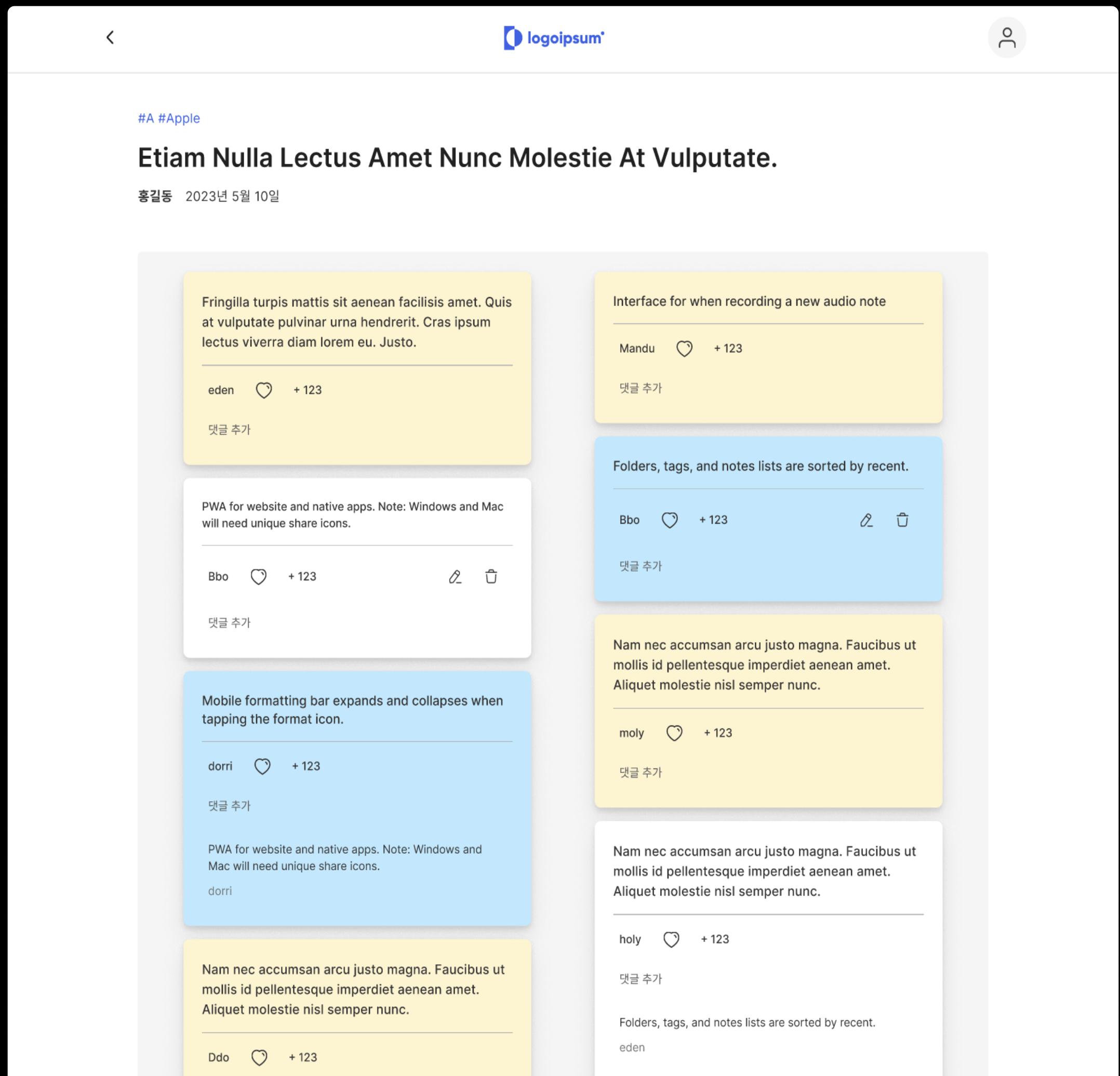
```
const PostitPage = (props) => {
  return (
    <>
    <Header />
    <PostInfo />
    <PostitWrapper>
      {props.datas.map((data) => {
        <PostitItem data={data} />;
      })}
    </PostitWrapper>
  );
};
```

# 컴포넌트 사용



```
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  return (
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    <Header />
    <PostInfo />
    <PostitWrapper>
      {props.datas.map((data) => {
        <PostitItem data={data} />;
      })}
    </PostitWrapper>
  </>
);
};
```

# 컴포넌트 사용 X



```
const PostitPage = (props) => {
  return (
    <>
      <h1></h1>
      <div className="postInfo">...</div>
      <div className="postitWrapper">
        <div className="postitItem">...</div>
        <div className="postitItem">...</div>
        <div className="postitItem">...</div>
        <div className="postitItem">...</div>
        ...
      </div>
    </>
  );
};
```



#A #Apple

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홍길동 2023년 5월 10일

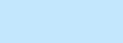
Fringilla turpis mattis sit aenean facilisis amet. Quis at vulputate pulvinar urna hendrerit. Cras ipsum lectus viverra diam lorem eu. Justo.

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Ddo

Interface for when recording a new audio note

Mandu

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댓글 추가

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moly

댓글 추가

Nam nec accumsan arcu justo magna. Faucibus ut mollis id pellentesque imperdiet aenean amet. Aliquet molestie nisl semper nunc.

holy

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Folders, tags, and notes lists are sorted by recent.

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Ddo ❤️

Interface for when recording a new audio note

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댓글 추가

Folders, tags, and notes lists are sorted by recent.

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댓글 추가

Nam nec accumsan arcu justo magna. Faucibus ut mollis id pellentesque imperdiet aenean amet. Aliquet molestie nisl semper nunc.

moly ❤️

댓글 추가

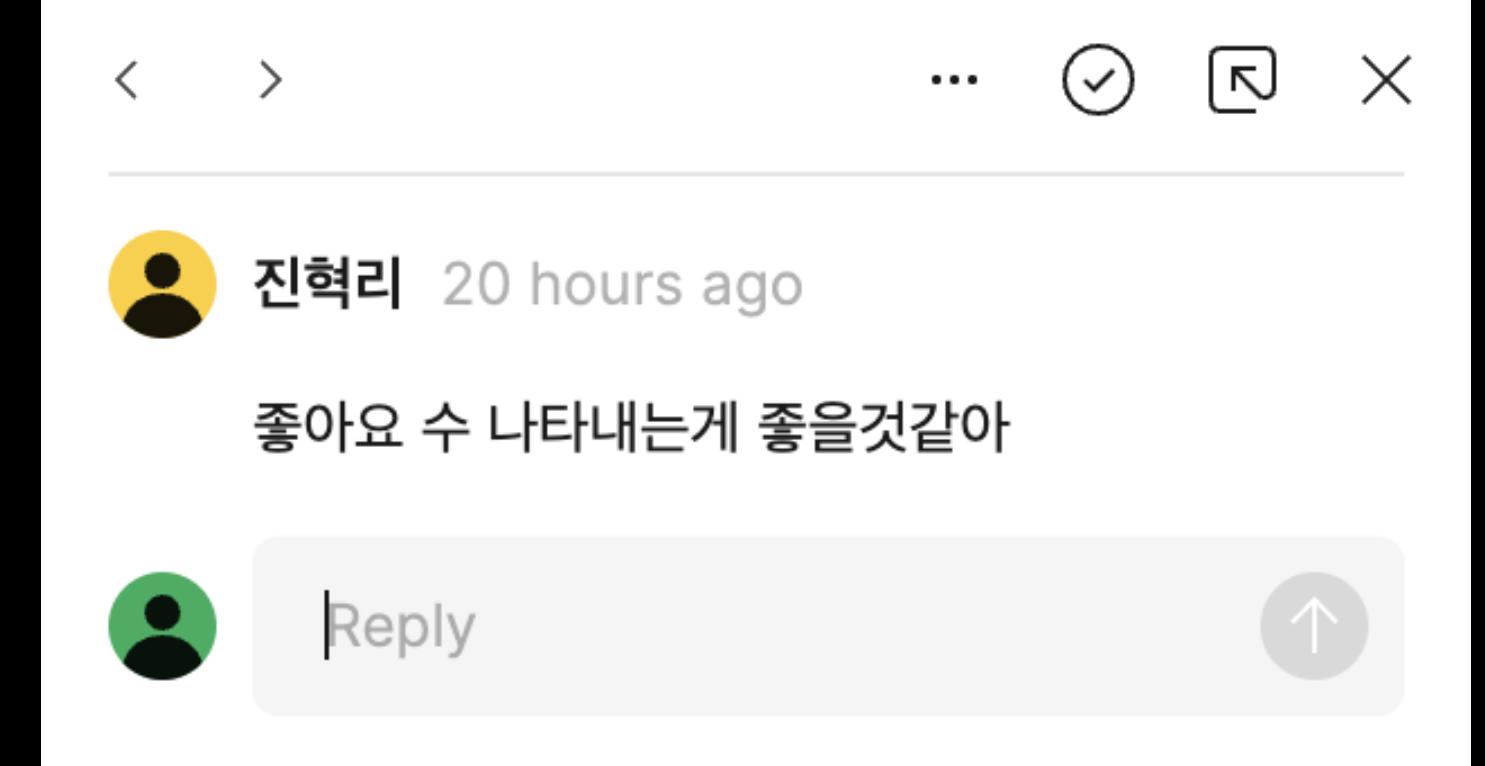
Nam nec accumsan arcu justo magna. Faucibus ut mollis id pellentesque imperdiet aenean amet. Aliquet molestie nisl semper nunc.

holy ❤️

댓글 추가

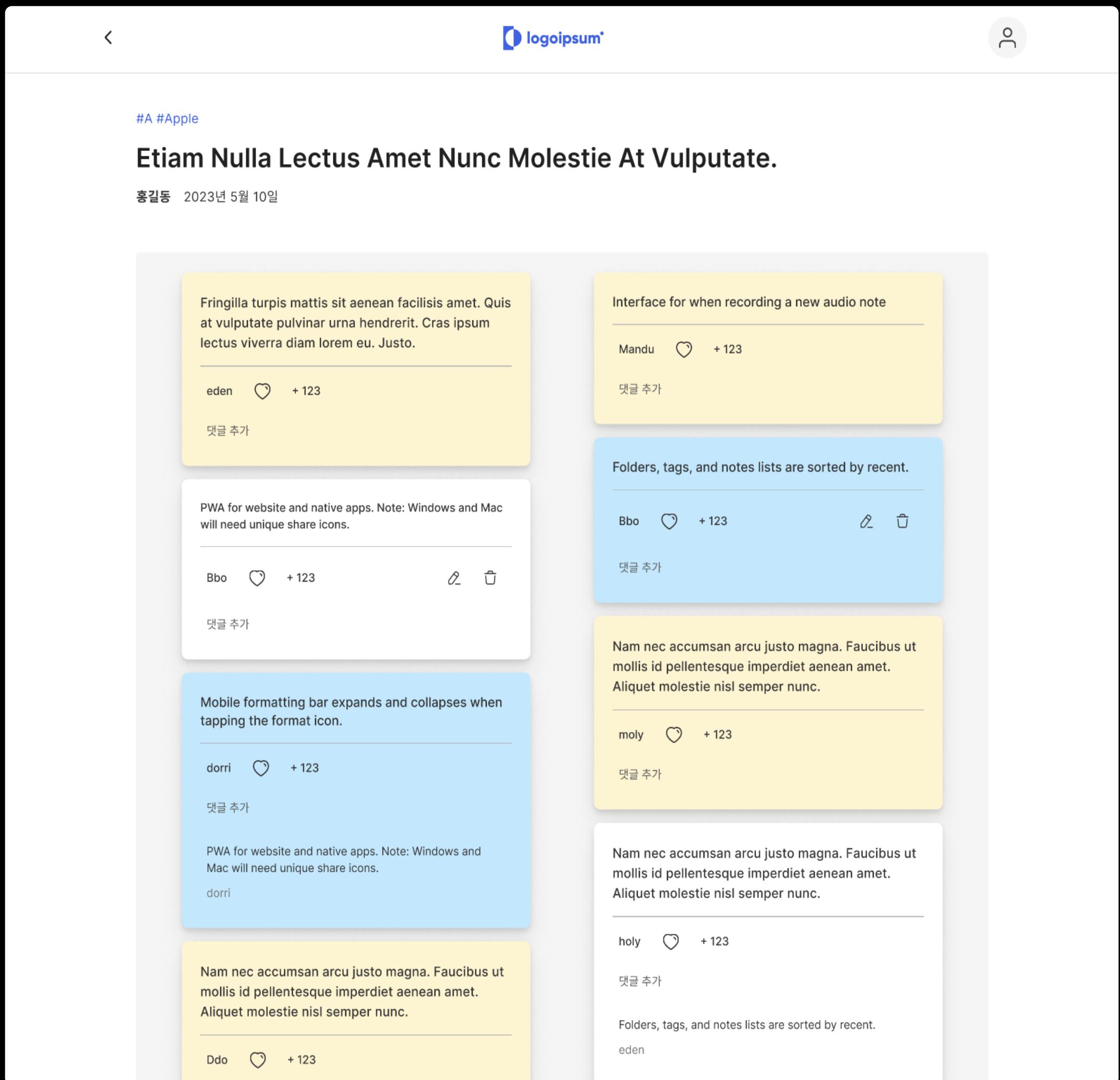
Folders, tags, and notes lists are sorted by recent.

eden



# 변경 발생 ⚡

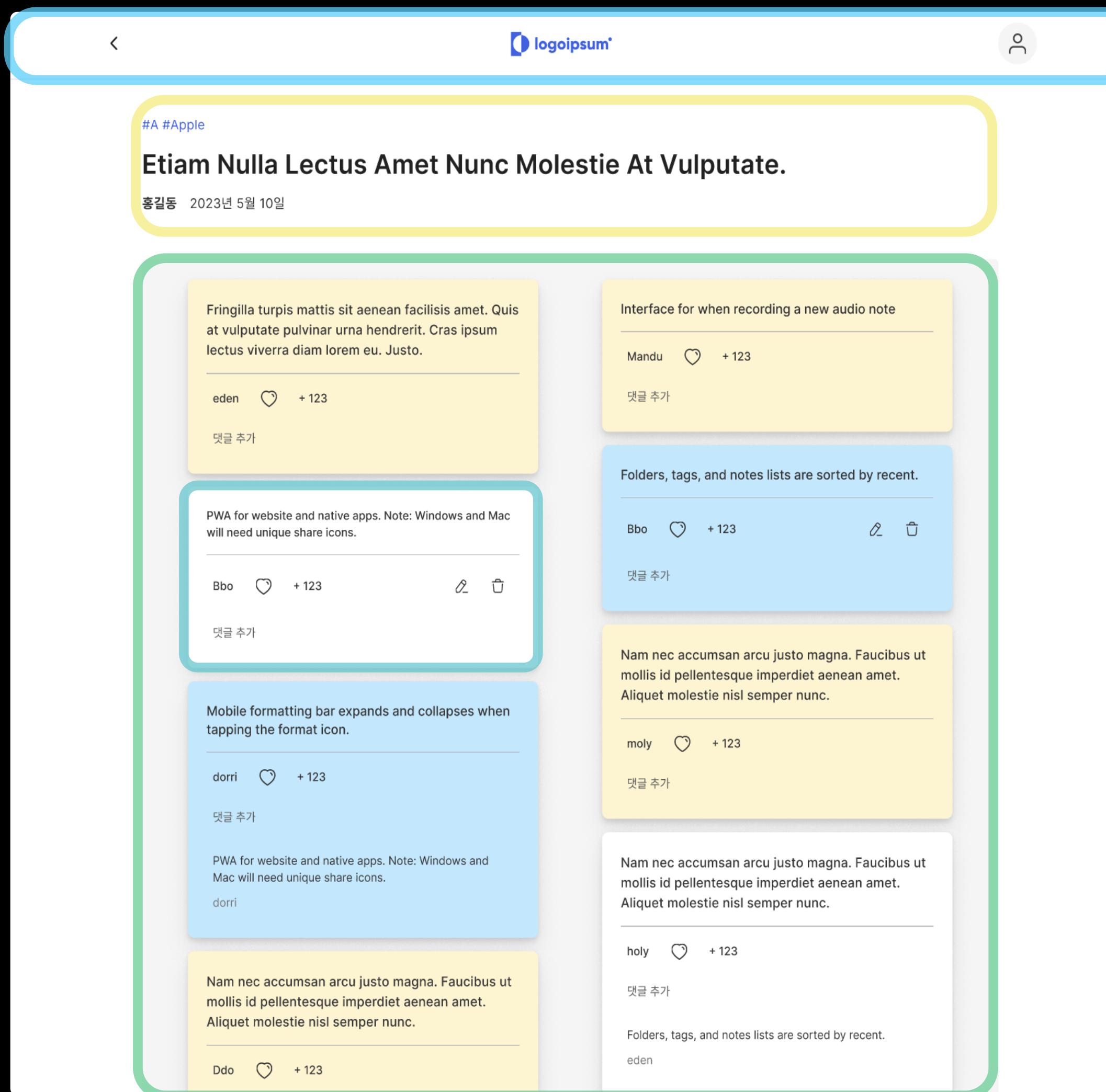
# 컴포넌트 사용 X



```
const PostitPage = (props) => {
  return (
    <>
      <h1></h1>
      <div className="postInfo">...</div>
      <div className="postitWrapper">
        <div className="postitItem">...</div>
        <div className="postitItem">...</div>
        <div className="postitItem">...</div>
        <div className="postitItem">...</div>
        ...
      </div>
    </>
  );
};
```

일일이 수정...

# 컴포넌트 사용



```
const PostitPage = (props) => {
  return (
    <>
      <Header />
      <PostInfo />
      <PostitWrapper>
        {props.datas.map((data) => {
          <PostitItem data={data} />;
        })}
      </PostitWrapper>
    </>
  );
};
```

PostitItem 컴포넌트만 수정!

무슨 기준으로 나눌까? 🤔

# React 디자인 패턴

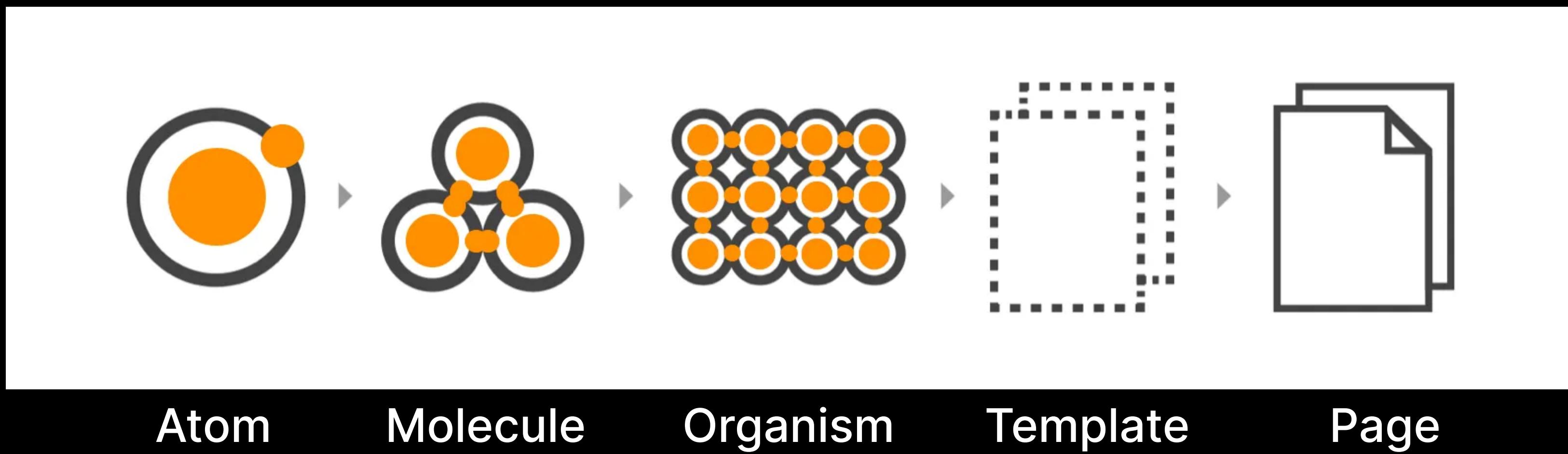
Presentational and Container Component Pattern

Atomic Design Pattern

Compound Components Pattern

- 
- 
-

# Atomic Design



Atom

Molecule

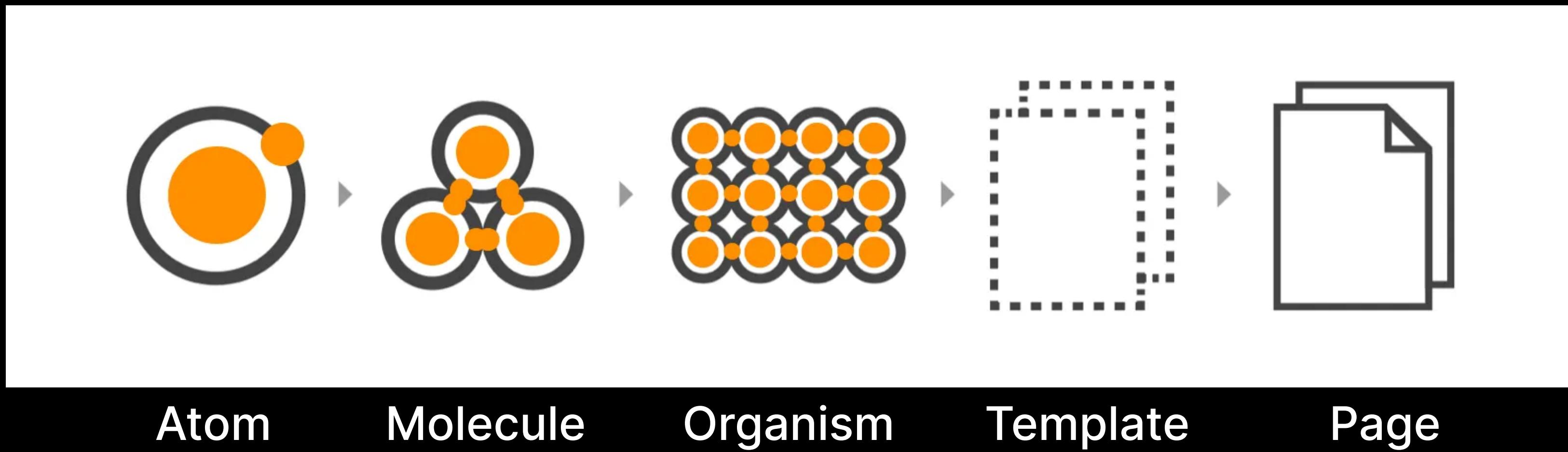
Organism

Template

Page

화학적 개념을 웹에 적용

# Atomic Design

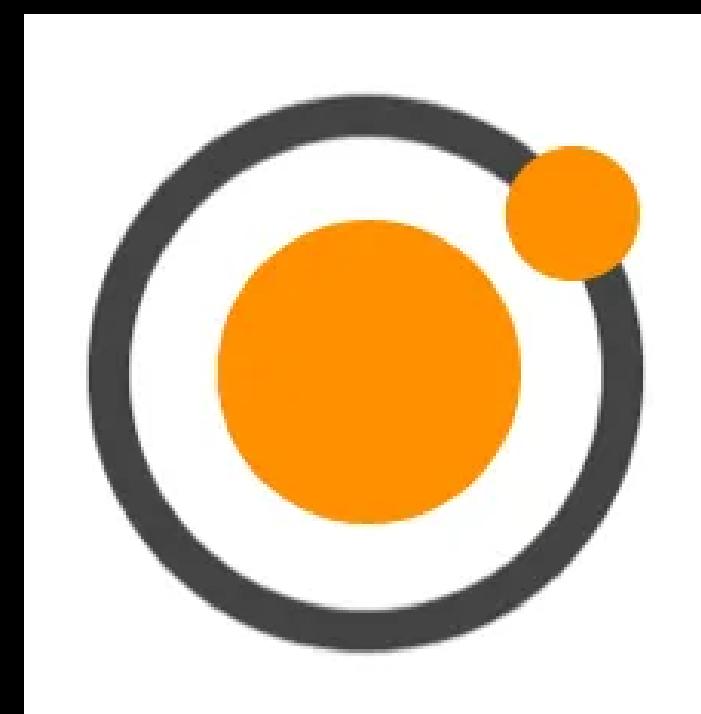


화학적 개념을 웹에 적용

가장 작은 단위로 쪼개기

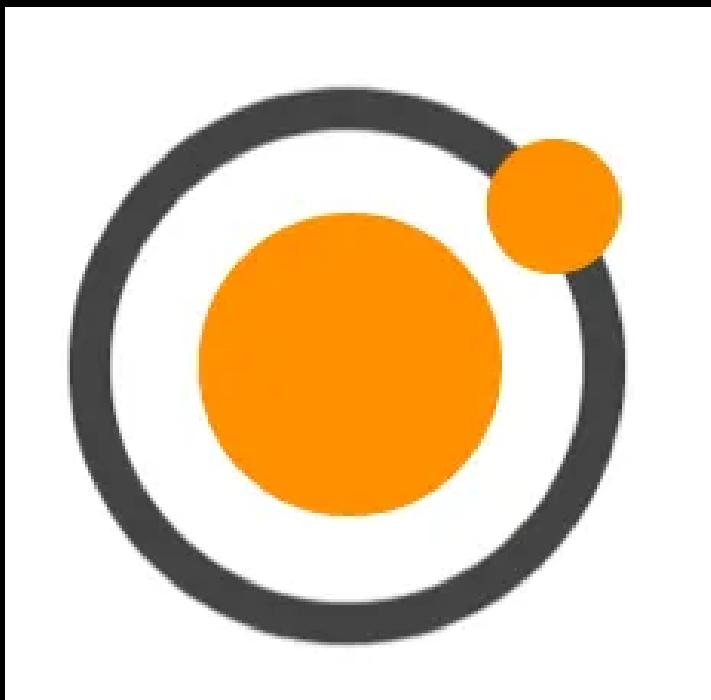
레고 블록 쌓듯이 합치기

# Atoms : 원자



인터페이스를 구성하는 최소 단위 컴포넌트

# Atoms : 원자



Atom

→ 더이상 분해할 수 없는 기본  
컴포넌트

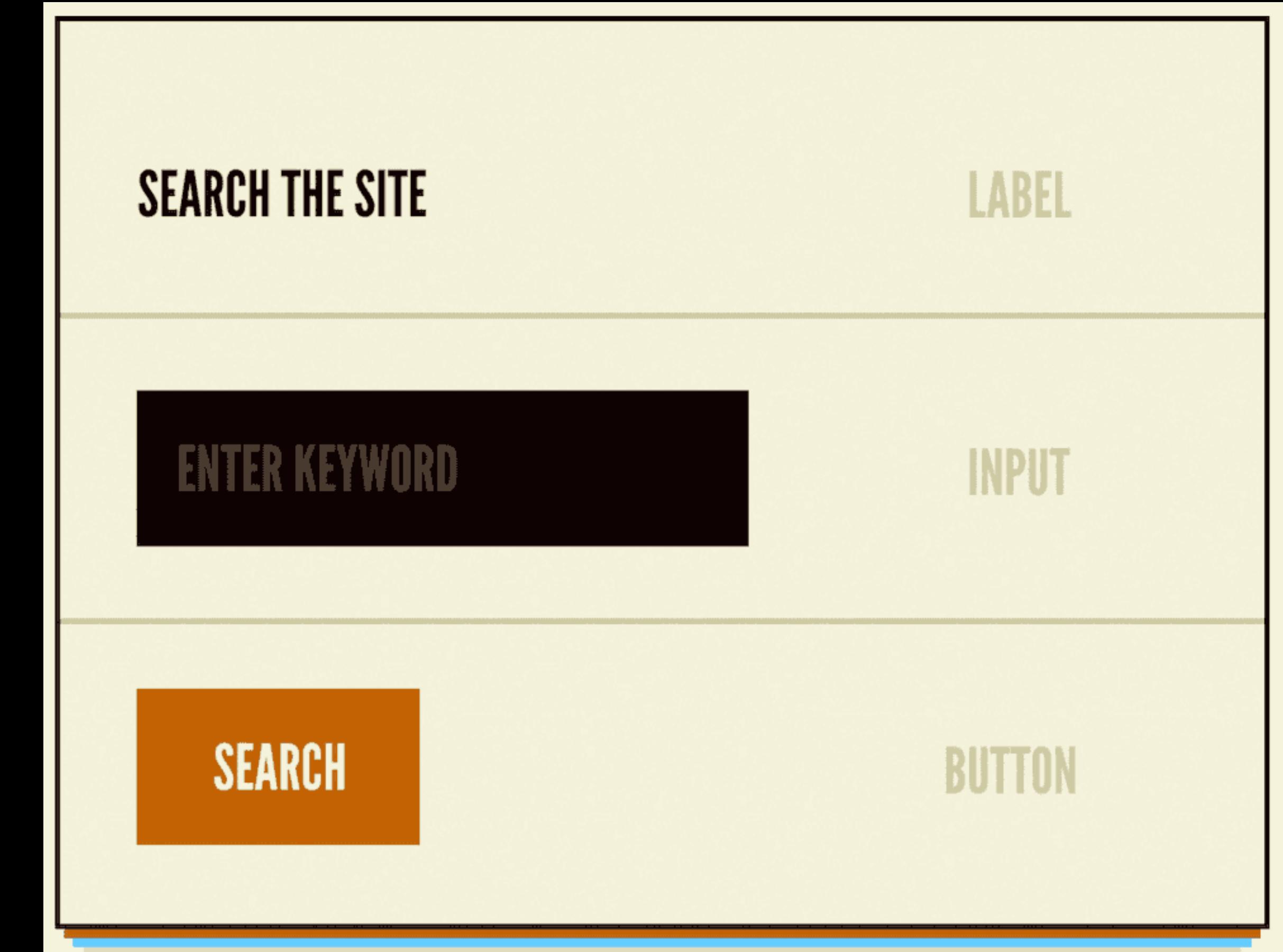
SEARCH THE SITE LABEL

---

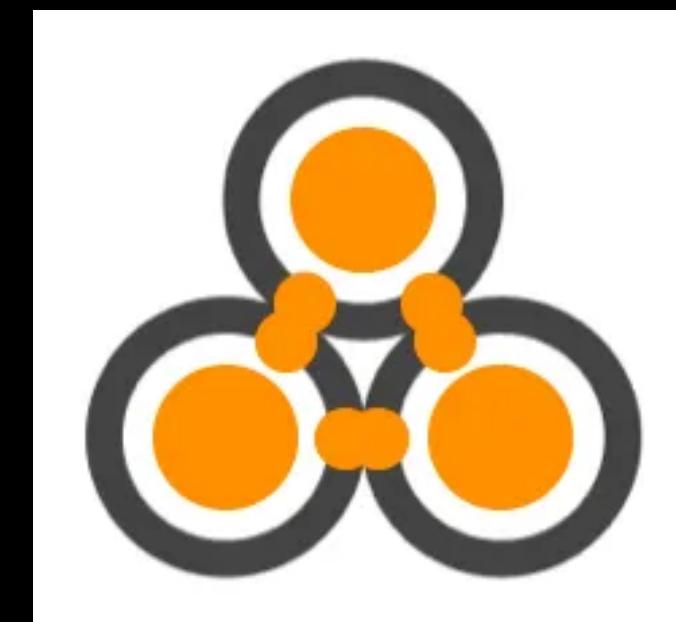
ENTER KEYWORD INPUT

---

SEARCH BUTTON

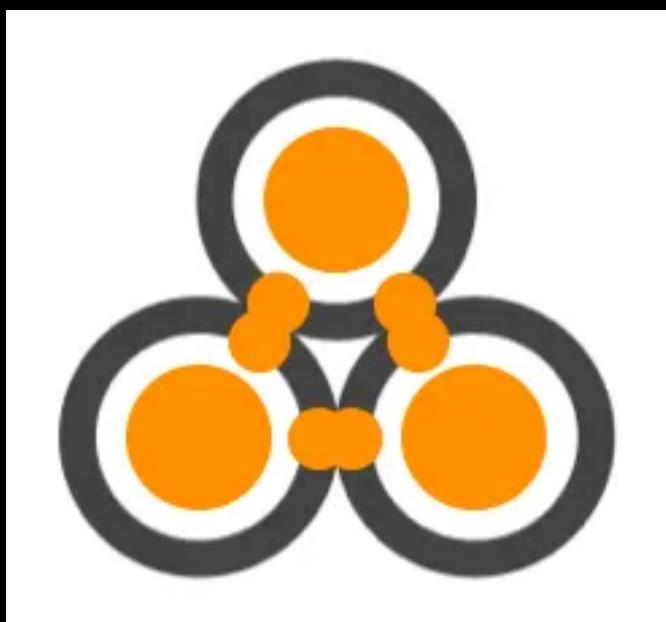


# Molecules : 분자



Atom을 여러 개 조합한 컴포넌트

# Molecules : 분자



Molecule

→ 한 가지 일을 수행

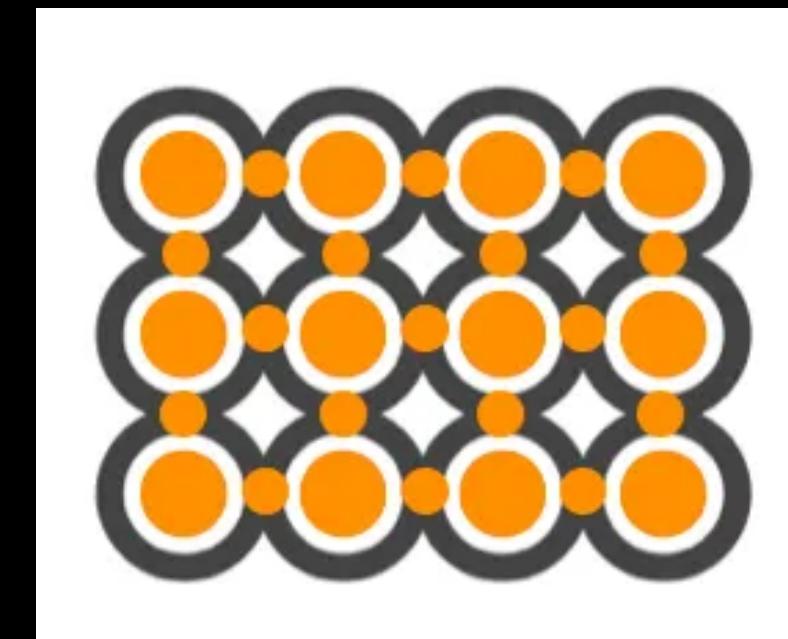
→ 즉, 하나의 기능을 담당

SEARCH THE SITE

ENTER KEYWORD

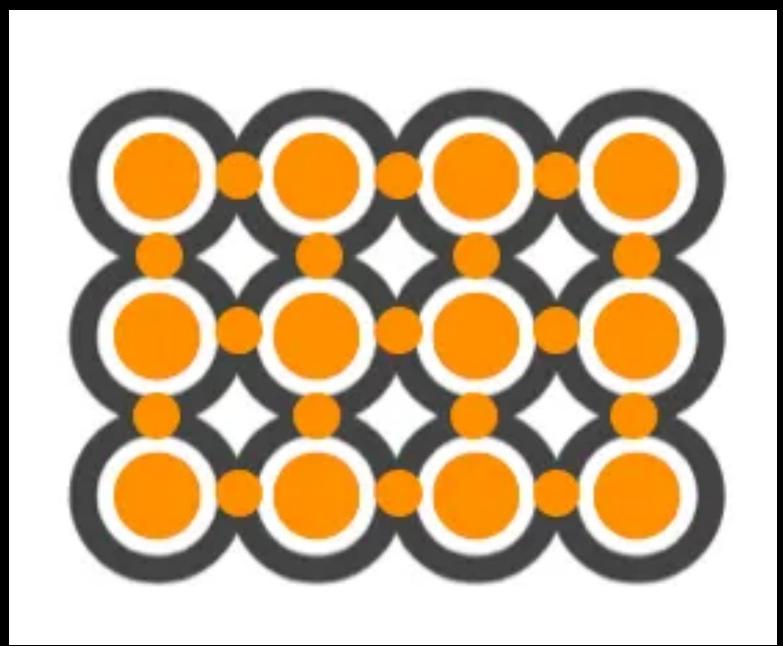
SEARCH

# Organisms : 유기체



Molecule과 Atom들을 조합한 컴포넌트

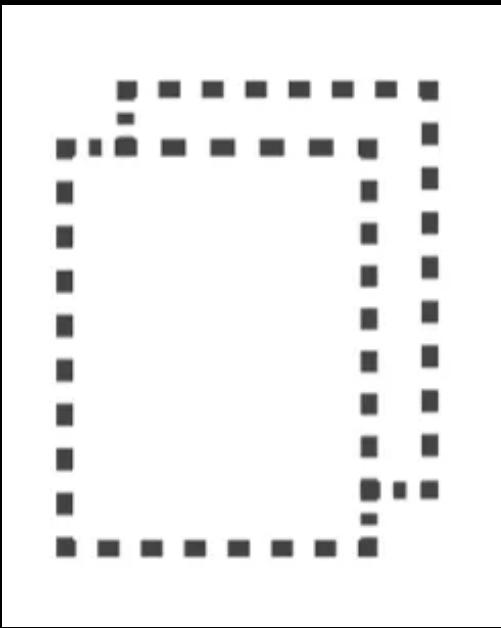
# Organisms : 유기체



## Organism

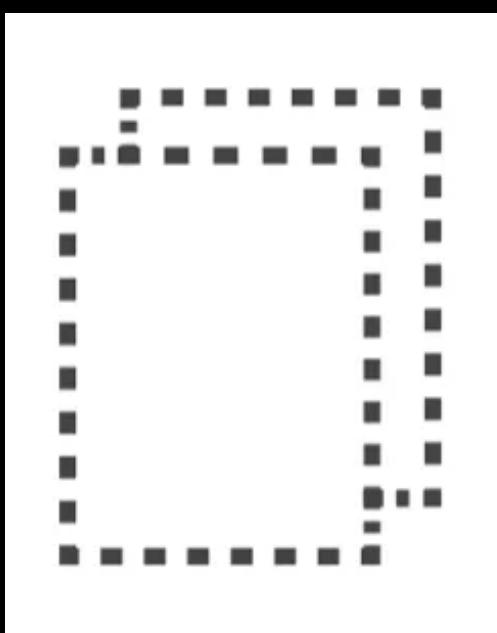
- 구체적이고 특수적
- 하나 이상의 기능

# Templates : 템플릿



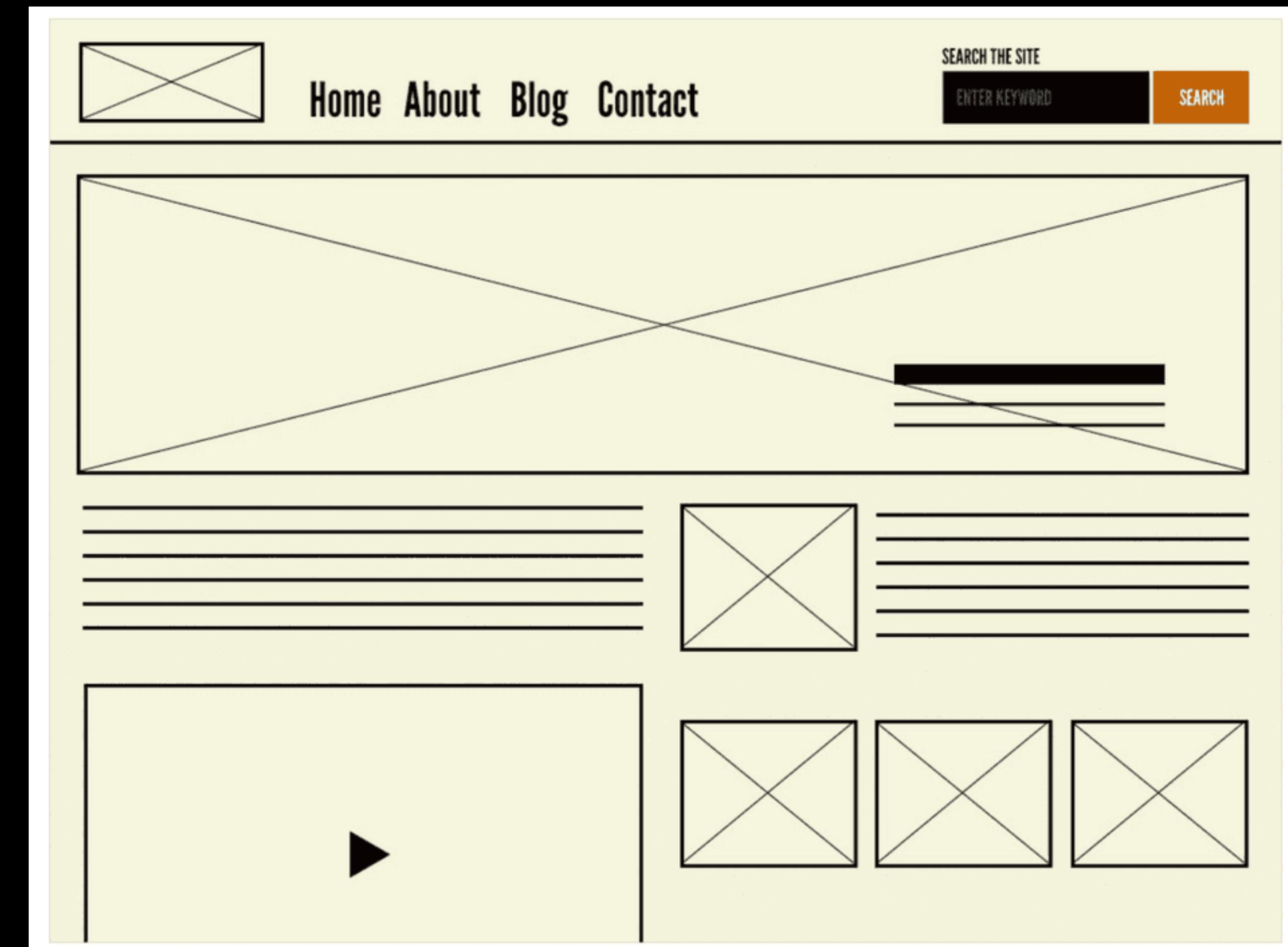
실제 콘텐츠가 없는 page 수준의 스켈레톤

# Templates : 템플릿



Template

→ 원자, 분자, 유기체 단계의  
컴포넌트를 배치하는 레이아웃



# Pages : 페이지



Template에 실제 데이터가 전달되면 페이지 완성!

# Pages : 페이지



Page

→ Template의 인스턴스

A screenshot of a website template instance. The header features a logo (a square with an 'X' pattern), navigation links (Home, About, Blog, Contact), a search bar with a placeholder 'ENTER KEYWORD' and a 'SEARCH' button, and a large background image of a mountain peak. The main content area contains the text 'This Is Real Content.' and several other sections of placeholder text. A sidebar on the right includes a small image of a hiker and three smaller images at the bottom: a 'STAFF PICK' video thumbnail, a snowy mountain landscape, a collection of climbing gear, and a person climbing a rock face.

# Atomic Design 단점

# 애매모호한 Organism 기준

The diagram illustrates two versions of a comment list interface, labeled A and B, with annotations explaining their components.

**CommentList** ← (A) This label points to the left side of the interface, indicating the main list of comments.

B → **CommentListToolbar** (B) This label points to the top right of the interface, indicating the toolbar for managing the comment list.

B → **Comment** (B) This label points to the individual comment card in version B, indicating the detailed view of a single comment.

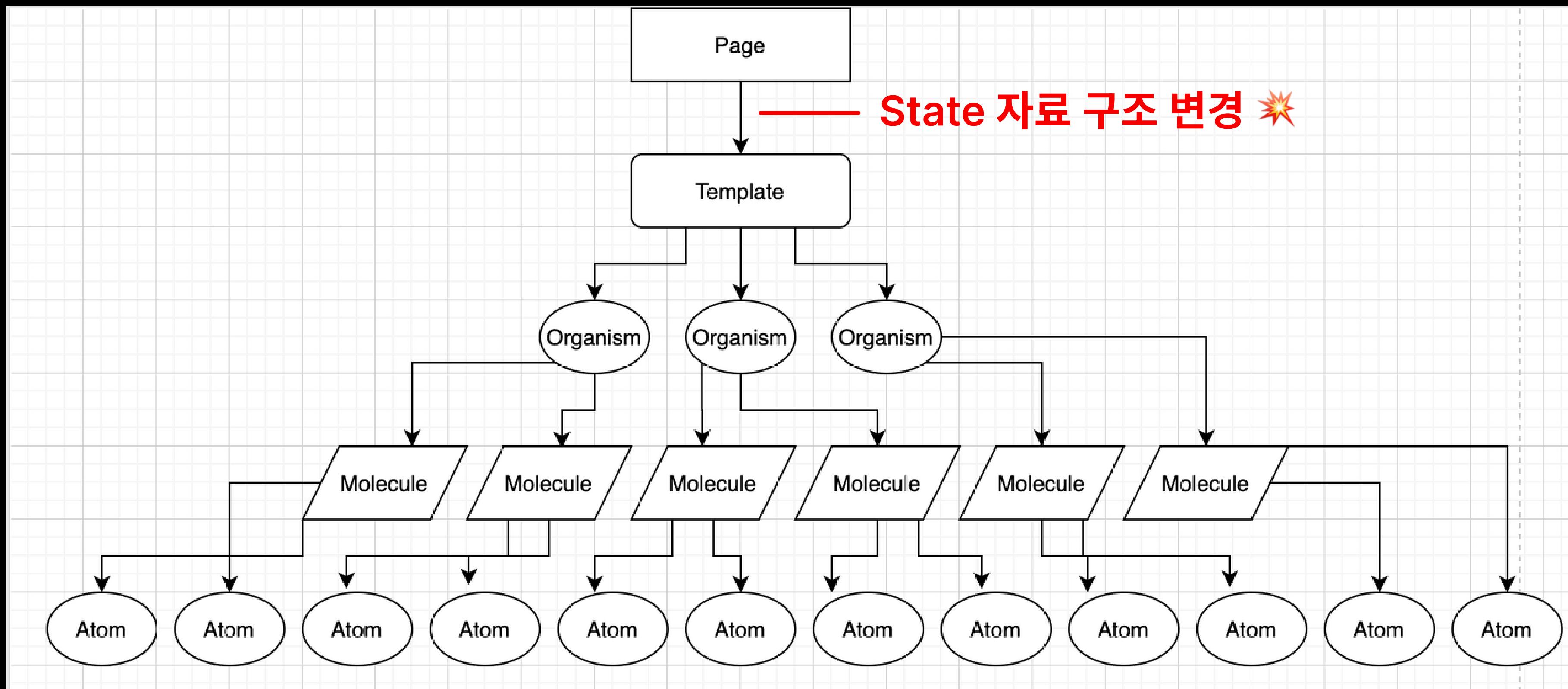
**A** (Left Column):

- 댓글 (6,998)** (with refresh icon)
- 최신순 | 좋아요순**
- 해화** (BEST) - 2018.09.19  
안녕하세요, 해화입니다.  
'사내맞선'이 나락님의 예쁜 그림으로 다시 태어났어요. 원작보다 재미있는 웹툰! 끝까지 함께 해주세요!  
사내 맞선 01화  
♡ 2,435 ○ 162
- 유가영** (BEST) - 2018.09.18  
제 통장 예약 걸고 달리러 출발할게요, 자까님ㅠㅠ♡  
사내 맞선 01화  
♡ 743 ○ 7
- 푸미쁘다** - 2022.04.25  
으악~원작소설 완독하니 웹툰이라니 ㅠ  
사내맞선에서 빠져나오질 못하네 ㅠ  
재밌어요 흑 ㅜ  
사내 맞선 01화

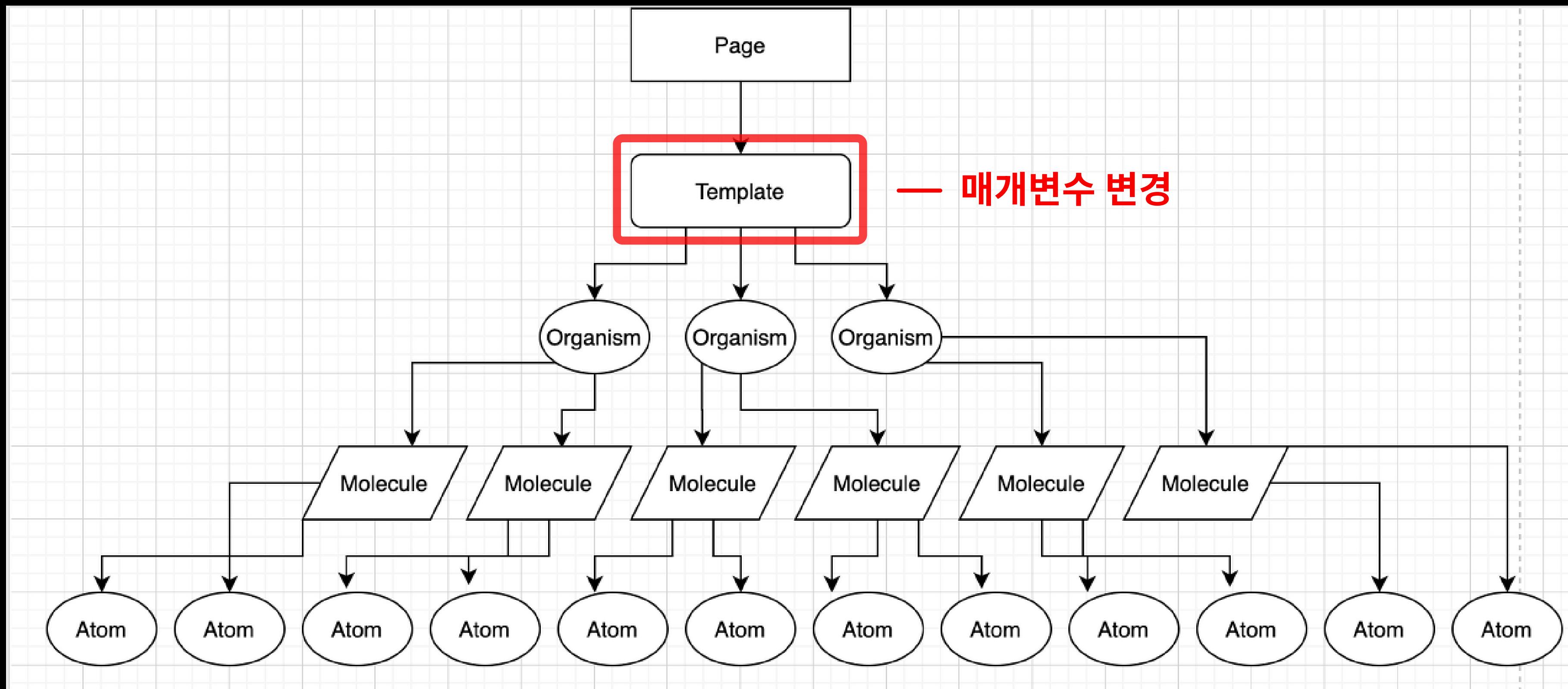
**B** (Right Column):

- 댓글 (6,998)** (with refresh icon)
- 최신순 | 좋아요순**
- 해화** (BEST) - 2018.09.19  
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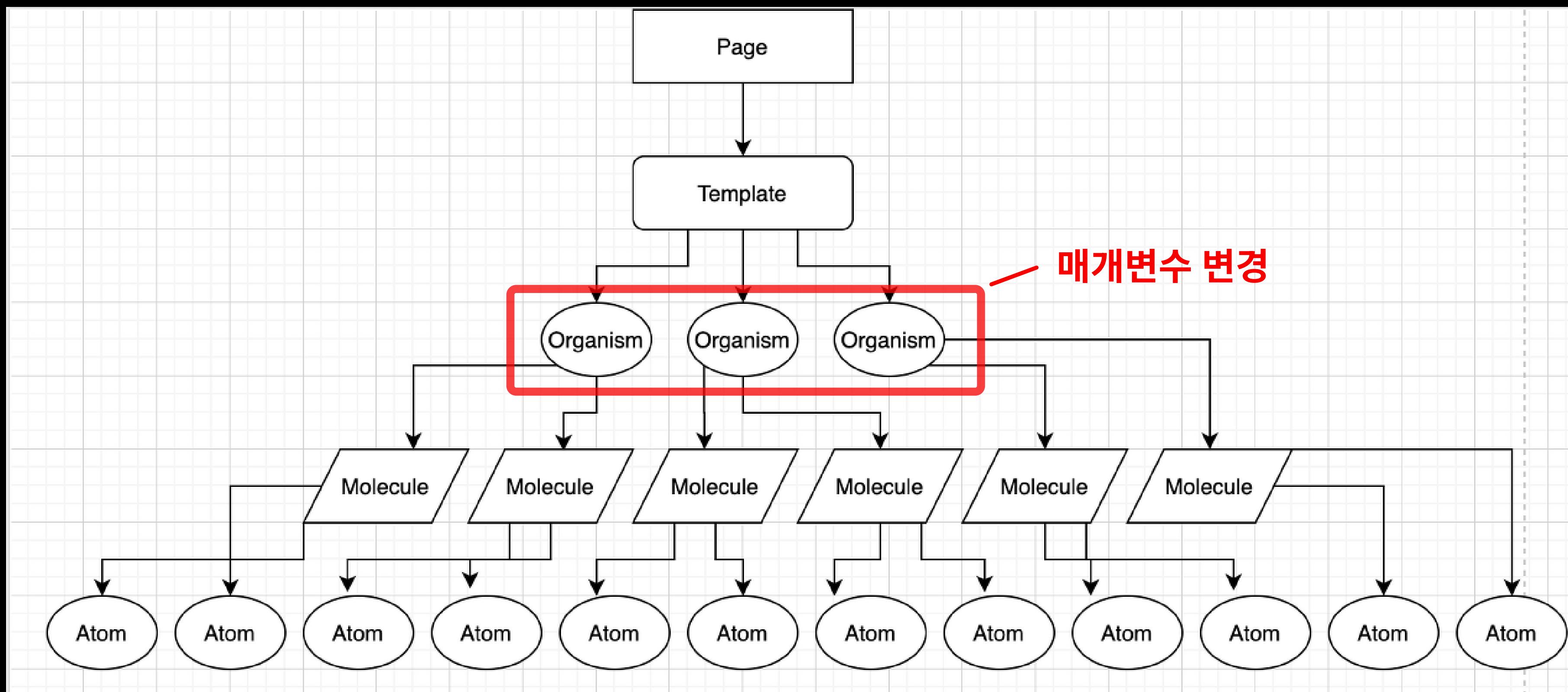
# Props Drilling



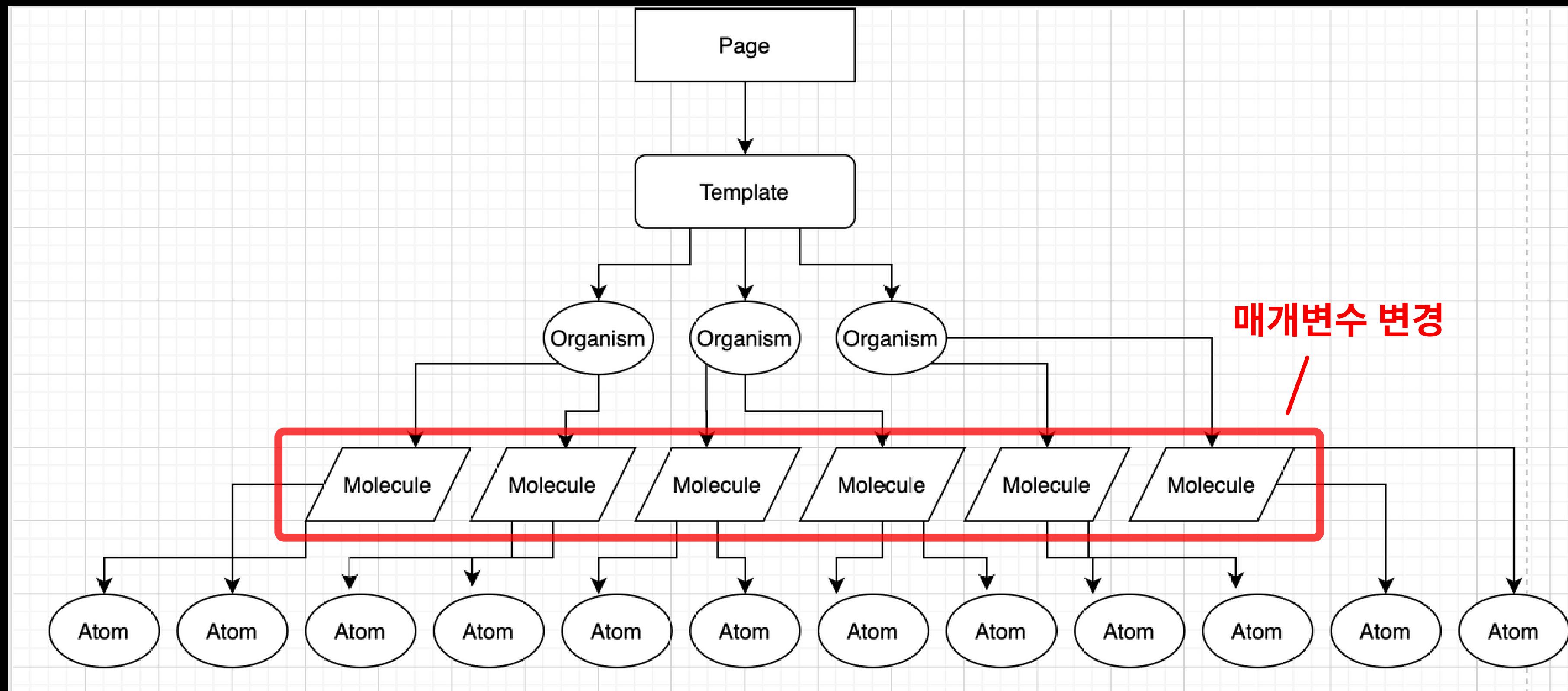
# Props Drilling



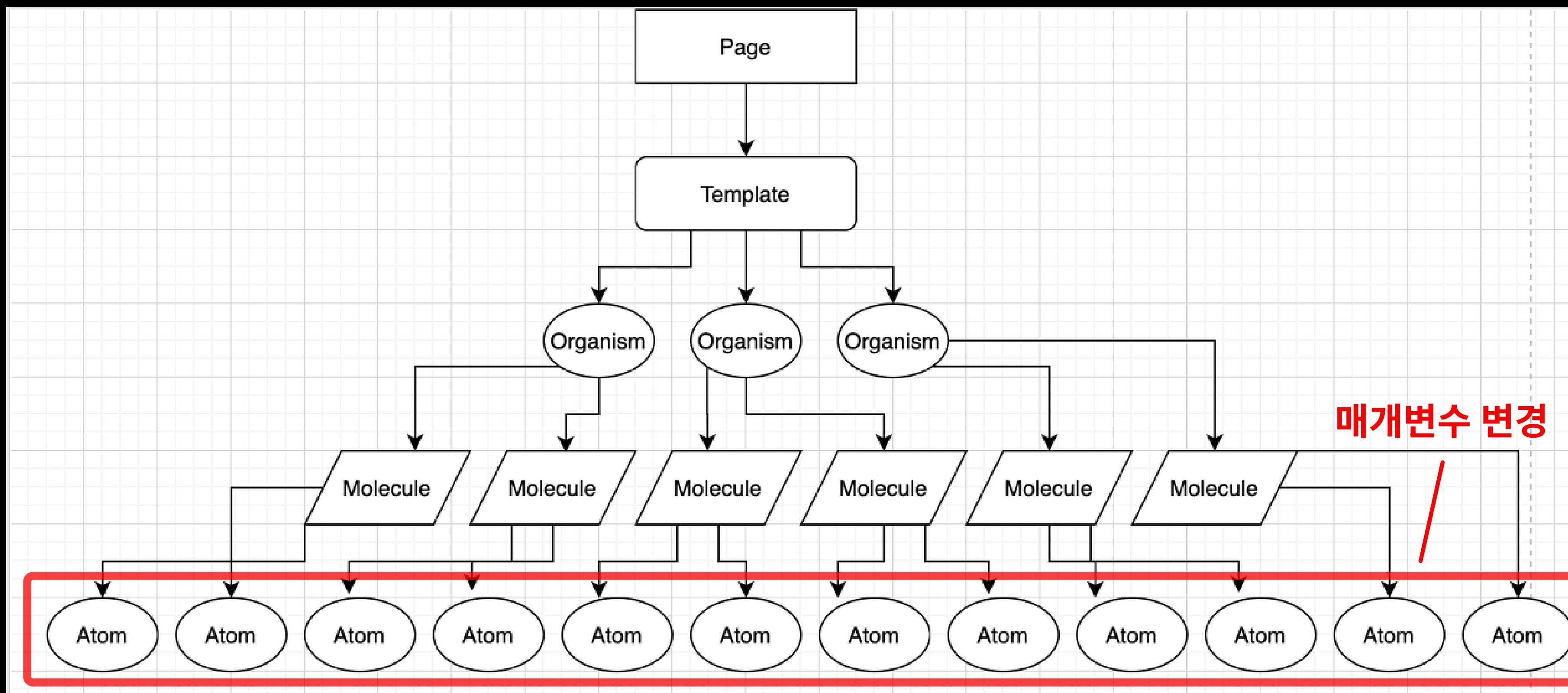
# Props Drilling



# Props Drilling



# Props Drilling



# 재사용성

Template

Page

화학적 비유가 적용되지 않음

이렇게 단점이 많은데 왜 소개해줬나요?



컴포넌트 분리를 고민하기 시작한  
프론트엔드 개발자

가장 작은 단위로 쪼개기

레고 블록 쌓듯이 합치기



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[10분 테코톡] 호프의 프론트엔드에서 컴포넌트

[10분 테코톡] 🎁 브랜의 프론트엔드에서 Component란

Line Entry의 Atomic Design 적용기

[A3] 컴포넌트, 다시 생각하기

토스 | SLASH 22 - Effective Component 지속 가능한 성장과 컴포넌트

Atomic Design Methodology

# Q&A